

7-24-92
12-38 v.6



TEXACO
MATERIAL SAFETY DATA SHEET

Date Issued: 07/24/92
Supersedes: 08/01/91

NOTE: Read and understand Material Safety Data Sheet before handling or disposing of product

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MATERIAL IDENTITY

Product Code and Name:
00958 MARFAK MULTI PURPOSE 2

Chemical Name and/or Family or Description:
Automotive Greases

Manufacturer's Name and Address:
Texaco Lubricants Company
a Division of Texaco Refining and Marketing Inc.
P.O. Box 4427, Houston, TX 77210-4427

Telephone Numbers:
TRANSPORTATION EMERGENCY Company: (914) 831-3400
HEALTH EMERGENCY Company: (914) 831-3400
GENERAL MSDS ASSISTANCE (914) 838-7204
TECHNICAL INFORMATION Fuels: (914) 838-7336; Lubricants/Antifreezes: (914) 838-7509
Chemicals: (512) 459-6543

5. F.T.A.
CHEMTREC: (800) 424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

THE CRITERIA FOR LISTING COMPONENTS IN THE COMPOSITION SECTION IS AS FOLLOWS:
CHRONIC HAZARDS (CARCINOGENIC, TERATOGENIC, MUTAGENIC, NEUROTOXIC AND SENSITIZERS)
ARE LISTED WHEN PRESENT AT 0.01% OR GREATER; ACUTE HAZARDS ARE LISTED WHEN PRESENT
AT 1.0% OR GREATER AND NON-HAZARDOUS COMPONENTS ARE LISTED WHEN PRESENT AT 3.0% OR
GREATER. THIS IS NOT INTENDED TO BE A COMPLETE COMPOSITIONAL DISCLOSURE.

	OSHA	IARC	NTP	OTHER	NONE
Product and/or Component(s) Carcinogenic According to:	-	-	-	-	X
Composition:					
Chemical/Common Name	CAS No.	Exposure Limit	Range in %		
Lithium 12-hydroxystearate	7620771	NONE ESTABLISHED	3.00 - 10.99		
Solvent-dewaxed heavy paraffinic petroleum distillates	64742650	5mg/m3 OSHA (MIST) 5mg/m3 ACGIH (MIST) 10mg/m3 STEL (MIST)	35.00 - 49.99		
Solvent deasphalted residual petroleum oil	64741953	5mg/m3 OSHA (MIST) 5mg/m3 ACGIH (MIST) 10mg/m3 STEL (MIST)	35.00 - 49.99		

Product is non-hazardous according to OSHA (1910.1200).
* Component(s) is hazardous according to OSHA or one or more state Right-to-Know laws.

3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

Appearance and Odor: Dark green semi-solid

WARNING STATEMENT

NONE CONSIDERED NECESSARY

HMIS		NFPA	
Health: 0	Reactivity: 0	Health: 0	Reactivity: 0
Flammability: 1	Special: -	Flammability: 1	Special: -

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3. HAZARD IDENTIFICATION (CONT)

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POTENTIAL HEALTH EFFECTS

Primary Route of Exposure: EYE SKIN INHALATION INGESTION
Effects of Overexposure: X X X -

Acute

Eyes:

May cause minimal irritation, experienced as temporary discomfort.

Skin:

No adverse effects expected from absorption of material through the skin.

Brief contact is not irritating. Prolonged contact, as with clothing wetted with material, may cause defatting of skin or irritation, seen as local redness with possible mild discomfort.

Inhalation:

Product not volatile at ambient temperatures. No adverse effects expected from vapor generated at ambient temperatures.

Ingestion:

No adverse effects expected. If more than several mouthfuls are swallowed, abdominal discomfort, nausea, and diarrhea may occur.

Sensitization Properties:

Unknown.

Chronic:

No adverse effects anticipated.

Medical Conditions Aggravated by Exposure:

Because of its defatting properties, prolonged and repeated skin contact may aggravate an existing dermatitis (skin condition).

Other Remarks:

Material from high pressure equipment, pinhole leaks, or high pressure line failure can penetrate the skin and, if not properly treated, can cause severe injury, including disfigurement, loss of function, or even require amputation of the affected area. To prevent such serious injury, immediate medical attention should be sought even if the injection injury appears to be minor.

4. FIRST AID MEASURES

Eyes:

Flush eyes with plenty of water for several minutes. Get medical attention if eye irritation persists.

Skin:

Wash skin with plenty of soap and water for several minutes. Get medical attention if skin irritation develops or persists.

Ingestion:

If more than several mouthfuls have been swallowed, give two glasses of water (16 oz.). Get medical attention.

Inhalation:

If irritation or drowsiness occurs, remove to fresh air.

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4. FIRST AID MEASURES (CONT)

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Other Instructions:

NOTE TO PHYSICIAN: High pressure injection of material into skin, if not properly treated, can cause severe injury. Most damage occurs during first few hours. Failure to debride the wound of all residual material can result in disfigurement, loss of function, or even require amputation of the affected area. The extent of the injury cannot be determined by examining the wound. X-ray may reveal the presence of gas in tendon sheaths or soft tissue.

Remove and dry-clean or launder clothing soaked or soiled with this material before reuse. Dry cleaning of contaminated clothing may be more effective than normal laundering. Inform individuals responsible for cleaning of potential hazards associated with handling contaminated clothing.

5. FIRE-FIGHTING MEASURES

Ignition Temp. Degrees F.: N.D. Flash Point Degrees F. (Method): N.D. (grease)
Flammable Limits (%) Lower: N.D. Upper: N.D.

Recommended Fire Extinguishing Agents And Special Procedures:

According to NFPA Guide, use water spray, dry chemical, foam, or carbon dioxide. Water or foam may cause frothing. Use water to cool fire-exposed containers. If a leak or spill has not ignited, use water spray to disperse the vapors and to provide protection for persons attempting to stop the leak.

Unusual or Explosive Hazards:
None

6. ACCIDENTAL RELEASE MEASURES (Transportation Spills Call: CHEMTREC (800) 424-9300)

Procedures in Case of Accidental Release, Breakage or Leakage:

Contain spill if possible, contain with absorbent materials such as clay or soil, and shovel up. Avoid skin and eye contact.

7. HANDLING AND STORAGE

Precautions to be Taken in Handling and Storage:

Minimum feasible handling temperatures should be maintained. Periods of exposure to high temperatures should be minimized. Water contamination should be avoided.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective Equipment (Type)

Eye/Face Protection:

Chemical-type goggles or face shield recommended to prevent eye contact.

Skin Protection:

Workers should wash exposed skin several times daily with soap and water. Soiled work clothing should be laundered or dry-cleaned.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION (CONT)

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Respiratory Protection:

Airborne concentrations should be kept to lowest levels possible. If vapor, mist or dust is generated, use respirator approved by MSHA or NIOSH as appropriate. Supplied air respiratory protection should be used for cleaning large spills or upon entry into tanks, vessels, or other confined spaces. See below for applicable permissible concentrations.

Ventilation:

Adequate to meet component occupational exposure limits (see Section 2).

Exposure Limit for Total Product:

None established for this product; refer to Section 2 for component permissible concentration.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Dark green semi-solid
Boiling Point (Degrees F.): N.D.
Specific Gravity: N.D. (H2O=1)
pH of undiluted product: N.A.
Vapor Pressure: Negligible mmhg
Viscosity: N.A.

Percent VOC: 100
Vapor Density: N.A. Air=1
Solubility in Water: Neglig
Other: -

10. STABILITY AND REACTIVITY

This Material Reacts Violently With: (If others is checked below, see comments for details)

Air Water Heat Strong Oxidizers Others None of These

Comments:
None

Products Evolved When Subjected to Heat or Combustion:

Toxic levels of carbon monoxide, carbon dioxide, irritating aldehydes and ketones, and combustion products or compounds of lithium

Hazardous Polymerizations:

OCCUR DO NOT OCCUR
- X

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION(ANIMAL TOXICITY DATA)

Median Lethal Dose (LD50 LC50) (Species)

Oral: believed to be >5 g/kg (rat); practically non-toxic

Inhalation: N.D.

Dermal: believed to be >3 g/kg (rabbit); practically non-toxic

Irritation Index, Estimation of Irritation (Species)

Skin: believed to be <0.5/8.0 (rabbit); no appreciable effect

Eyes: believed to be < 15/110 (rabbit); no appreciable effect

Sensitization: N.D.

Other:
None

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12. DISPOSAL CONSIDERATIONS

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WASTE DISPOSAL METHODS

READ 1

This product has been evaluated for RCRA characteristics and does not meet the criteria of a hazardous waste if discarded in its purchased form. Under RCRA, it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because product uses, transformations, mixtures, processes, etc. may render the resulting materials hazardous.

REMARKS

None

13. TRANSPORT INFORMATION

TRANSPORTATION

DOT: PROPER SHIPPING NAME: N.D.

IMDG: PROPER SHIPPING NAME: N.D.

IATA: PROPER SHIPPING NAME: N.D.

TDG: PROPER SHIPPING NAME: N.D.

14. REGULATORY INFORMATION

A. SARA TITLE III

Title III Section 302/304 Extremely Hazardous Substance:

Component	CAS No.	Percent	RO (lbs)	TPO (lbs)
NONE				

CERCLA Section 102(a) Hazardous Substance

Component	CAS No.	Percent	RO (lbs)
NONE			

Title III Section 311 Hazard Categorization

Acute	Chronic	Fine	Pressure	Reactive	Not Applicable
-	-	-	-	-	X

Title III Section 313 Toxic Chemicals

Component	CAS No.	Percent
NONE		

B. WHMIS CLASSIFICATION

Not Regulated

C. MICHIGAN CRITICAL MATERIALS

0.12% lithium.

15. OTHER INFORMATION

None

THE INFORMATION CONTAINED HEREIN IS BELIEVED TO BE ACCURATE. IT IS PROVIDED INDEPENDENTLY OF ANY SALE OF THE PRODUCT FOR PURPOSE OF HAZARD COMMUNICATION AS PART OF TEXACO'S PRODUCT SAFETY PROGRAM. IT IS NOT INTENDED TO CONSTITUTE PERFORMANCE INFORMATION CONCERNING THE PRODUCT. NO EXPRESS WARRANTY, OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS MADE WITH RESPECT TO THE PRODUCT OR THE INFORMATION CONTAINED HEREIN. DATA SHEETS ARE AVAILABLE FOR ALL TEXACO PRODUCTS. YOU ARE URGED TO OBTAIN DATA SHEETS FOR ALL TEXACO PRODUCTS YOU BUY, PROCESS, USE OR DISTRIBUTE AND YOU ARE ENCOURAGED AND REQUESTED TO ADVISE THOSE WHO MAY COME IN CONTACT WITH SUCH PRODUCTS OF THE INFORMATION CONTAINED HEREIN.

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15. OTHER INFORMATION (CONT)

TO DETERMINE APPLICABILITY OR EFFECT OF ANY LAW OR REGULATION WITH RESPECT TO THE PRODUCT,
USER SHOULD CONSULT HIS LEGAL ADVISOR OR THE APPROPRIATE GOVERNMENT AGENCY. TEXACO
DOES NOT UNDERTAKE TO FURNISH ADVICE ON SUCH MATTERS.

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Inquiries regarding MSDS should be directed to:
Texaco Inc.
Manager, Product Safety
P.O. Box 509
Beacon, N.Y. 12508

PLEASE SEE NEXT PAGE FOR PRODUCT LABEL